

04C0
04/12/2001
OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/810,936

DATE: 04/02/2001

TIME: 11 01:45

Input Set : A:\419c11.app.txt

Output Set: N:\CRF3\04022001\I810936.raw

ENTERED

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3 <110> APPLICANT: Frudakis, Tony N.
4   Reed, Steven G.
5   Smith, John M.
6   Misher, Linda E.
7   Dillon, Davin C.
8   Retter, Marc W.
9   Wang, Aijun
10  Skeiky, Yasir A.W.
11  Harlocker, Susan L.
12  Day, Craig H.
16 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
17   THERAPY AND DIAGNOSIS OF BREAST CANCER
20 <130> FILE REFERENCE: 210121.419C11
C--> 22 <140> CURRENT APPLICATION NUMBER: US/09/810,936
23 <141> CURRENT FILING DATE: 2001-03-16
26 <160> NUMBER OF SEQ ID NOS: 334
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32 <212> TYPE: DNA
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38   ttgtctaagg cgattgaagt cgtccagggg catgatgagt caccaggagt gtttttagag      180
39   cactccagg aggettatcg gatttacacc ccttttgacc tggcagcccc cgaaaatagc      240
40   catgctctta atttggcatt tgtggctcag gcagccccag atagtaaaag gaaactccaa      300
41   aaatagagg gattttgctg gaatgaatac cagtcagctt ttagagatag cctaaaaggt      360
42   ttt
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45 <211> LENGTH: 121
46 <212> TYPE: PRT
47 <213> ORGANISM: Homo sapien
49 <400> SEQUENCE: 2
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51   1           5           10           15
52   Gly Arg Thr Phe Asp Asp Phe His Arg Tyr Leu Leu Val Gly Ile Gln
53           20           25           30
54   Gly Ala Ala Gln Lys Pro Ile Asn Leu Ser Lys Ala Ile Glu Val Val
55           35           40           45
56   Gln Gly His Asp Glu Ser Pro Gly Val Phe Leu Glu His Leu Gln Glu
57           50           55           60
58   Ala Tyr Arg Ile Tyr Thr Pro Phe Asp Leu Ala Ala Pro Glu Asn Ser
59           65           70           75           80
60   His Ala Leu Asn Leu Ala Phe Val Ala Gln Ala Ala Pro Asp Ser Lys
61           85           90           95
62   Arg Lys Leu Gln Lys Leu Glu Gly Phe Cys Trp Asn Glu Tyr Gln Ser

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63          100          105          110
64 Ala Phe Arg Asp Ser Leu Lys Gly Phe
65          115          120
67 <210> SEQ ID NO: 3
68 <211> LENGTH: 1080
69 <212> TYPE: DNA
70 <213> ORGANISM: Homo sapien
72 <220> FEATURE:
73 <221> NAME/KEY: misc_feature
74 <222> LOCATION: (1)...(1080)
75 <223> OTHER INFORMATION: n = A,T,C or G
77 <400> SEQUENCE: 3
78 tcttagaattc ttcataccac gaactcttgg gaaaacttta atcagtcacc tacagtctac 60
79 gaaacatttta gaggaggcaa agctacatca gctcctccgg agccgtttta agatccccc 120
80 tcttcaaagc ctaacagatc aagcagctct ccggtgcaca acctgcgcc aggtaaatgc 180
81 caaaaaaggc cctaaaccac gccagggcca ccgtctccaa gaaaactcac caggagaaaa 240
82 gtgugaaatt gaactttacag aagtaaaacc acaccggggt gggtaacaa acctctctagt 300
83 actggttagac acctctctct gatggaactga agcatttgc accaaaaac aaactgtcaa 360
84 tatgttagtt aagtttttac tcaatgaaat catccctcga cgtgggctgc ctgttgccat 420
85 aggtctctgat aatggaacgg ccttcgcctt gtctatagtt taatcagtc gtaaggcggt 480
86 aaatattcaa tggaaagctc attgtgccta tcgacccaga gctctgggca agtagaacgc 540
87 atgaactgca cctaaaaaaa acactcttac aaaattaatc ttaaaaaacc gtgttaattg 600
88 tgttagtctc ctcccttag cctacttag agttaagggt cacccttaa tgggctgggt 660
W--> 89 tctttacctt ttgaaatcat ntttnggaag gggctgccta tctttnctta actaaaaaan 720
W--> 90 gccattttgg caaaaatttc ncaactaatt tntacgtnc tacgtctccc caacagggtan 780
W--> 91 aaaaaatctc tgcccttttc aaggaaccat cccatccatt cctnaacaaa aggcctgccn 840
W--> 92 ttctccccc agttaactnt tttttnttaa aattcccaaa aaangaaccn cctgctggaa 900
W--> 93 aaacnccccc ctccaanccc cgccnaagn ggaaggttcc cttgaatccc nccccncna 960
W--> 94 anggcccgga acctntaaan tngttccngg gggtnnggcc taaaagnccn atttggtaaa 1020
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110 ttcccatcat ttttaagggc taaaatcacc ttgttcagac ctcagcatat aaaatgacc 180
111 atctgtagac ctcaggctcc aaccataccc caagagtgtg ctggttttgt ttaattact 240
112 gccaggtttc agctgcagat atccctggaa ggaatattcc agattccctg agtagtttcc 300
113 aggtttaaaat cctataggct tcttctgttt tgagggaag ttcctgtcag agaaaaacat 360
114 gattttggtt ttttaacttt aatgtttgtg aaacgtata aaaaaaattt tctacccta 420
115 gctttaaagt actgttagtg agaaattaaa attccttcag gaggattaaa ctgccatttc 480
116 agttacccta attccaaatg ttttggtggt tagaatcttc tttaatgttc ttgaagaagt 540
W--> 117 gttttatatt ttcaccatca gataaattct ctcnccctt nttttntnt ctntttttt 600

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Input Set : A:\419c11.app.txt

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W--> 118   aaaacggant   ctgtctcgt   tgtccanget   gggaattttt   ttttggccaa   tctccgctnc   660
W--> 119   cttgcaanaa   tntctgentcc   caaaattacc   ncttttttcc   cactccacc   cennngaatt   720
W--> 120   acctggaatt   anagggcccc   ncccccccc   cggetaattt   gtttttgttt   ttagtaaaaa   780
W--> 121   acgggtttcc   tgttttagtt   aggatggccc   anntctgacc   cntnatent   cccctcngc   840
W--> 122   cctcnaatnt   tnggnntang   gcttaccccc   ccengnngtt   tttcctccat   tnaaattttc   900
W--> 123   tntggantct   tgaatnncgg   gttttccctt   ttaaaccnat   tttttttttt   nnncccccnn   960
W--> 124   ttttncctcc   ccctntnta   anggggggtt   cccaanccgg   gtecncccc   angtecccaa   1020
W--> 125   tttttctccc   cccccctctt   ttttctttnc   cccaaaante   ctatcttttc   cttnnaatat   1080
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129 <211> LENGTH: 1010
130 <212> TYPE: DNA
131 <213> ORGANISM: Homo sapien
133 <220> FEATURE:
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135 <222> LOCATION: (1)...(1010)
136 <223> OTHER INFORMATION: n = A,T,C or G
138 <400> SEQUENCE: 5
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140   agtaaacatt   ctccacagtt   tatgcaaaaa   gtaacaaaac   cactgcagat   gacaaacact   120
141   aggtaacaca   catactatct   cccaaatacc   taccacaag   ctcaacaatt   ttaaaactgtt   180
142   aggatcactg   gctctaatca   ccattgacatg   aggtcaccac   caaaccatca   agcgtataac   240
143   aqatagaatg   tttccactcc   tgatccactg   tgtgggaaga   agcaccgaac   ttaccactg   300
W--> 144   gggggcctgc   ntcanaanaa   aagcccatgc   cccggggtnt   ncttttnaac   cggaacgaat   360
W--> 145   naaccaccca   tccccacanc   tctctgttcc   ntgggcctg   catcttggtg   cctctnttnc   420
W--> 146   tttnngggan   acntggggaa   ggtaccctat   ttcttgacc   cncnanaaaa   acccngtg   480
W--> 147   ccttttccc   tgattcnent   gggccttttc   tcttttccct   tttgggttgt   ttaaattccc   540
W--> 148   aatgtcccn   gaacctctc   cntnctgccc   aaaacctacc   taaattnctc   nctangnntt   600
W--> 149   ttcttggtgt   tntttttcaa   aggtnacctt   nctgttcan   ncccnacnaa   aatttnttcc   660
W--> 150   ntatnntgg   ccnnaaaaaa   nnnatcnnc   cnaattgccc   gaattggtn   ggttttccct   720
W--> 151   nctgggggaa   acccttttaa   tttccccctt   ggccggcccc   ccttttttcc   ccccttnga   780
W--> 152   aggcagngg   ttcttcccca   acttccaatt   ncaacagcnn   tgcccattgn   tgaaacctt   840
W--> 153   ttctaaaaat   taaaaaatan   ccggttnngg   nnggcctctt   tcccctcng   gngggngng   900
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159 <212> TYPE: DNA
160 <213> ORGANISM: Homo sapien
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163 <221> NAME/KEY: misc_feature
164 <222> LOCATION: (1)...(950)
165 <223> OTHER INFORMATION: n = A,T,C or G
167 <400> SEQUENCE: 6
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169   gctcactgca   atctctgccc   ccggggtcat   gcgattctcc   tgctcagcc   ttccaagtag   120
170   ctgggattac   aggcgtgcaa   caccaccccc   ggctaatttt   gtatttttaa   tagagatggg   180
W--> 171   gttttccctt   gttggccann   atggtctcna   accctgacc   tcnngtgatc   ccccncccn   240
W--> 172   ngantenna   ctgctgggga   tnnccgnnnn   nnnctcccn   ncnennnnnn   ncnennntcn   300

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W--> 173  tnnctcttnc tennnnnnnn cnntcnntcc nnetctctnc cnnntntntt cnnncnccnn 360
W--> 174  cnnncnctnt ncccnennnt tcnctntcnn tntcenncnn nntcnnnnnn cnnnnctnn 420
W--> 175  cennctacntc nttnnnnnnt cctctctnnn cctcnnnnnt cctcncntnt tntctctctn 480
W--> 176  nttnnnnnct cennnnntct ctnctcnnnn tncctcnnntn nccncncccc nccctcncnc 540
W--> 177  ctntttttnn cnnnnnttcc ntnccttctn nntcennntn cnnctcncn nncnttttct 600
W--> 178  cccnctnttc cttnctcctn nntntcnnn cncctcnnct ntttctctct nntcccnnc 660
W--> 179  tcnntctccc cnnntccccc cccnccctnt ctctcncnn nntnnntntn nnnctcnc 720
W--> 180  tntcncnttc ntctntntnt tntctcnnn nncnntcnc tncctntnt ctntntcnc 780
W--> 181  tcnctntctn cctcctttn ctntctctn tntctctccc ctncctctct cttctcnc 840
W--> 182  cennntntnt tnnccnctnt nctnnnnnn cctctcttct tctctctnn nntnnctc 900
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187 <212> TYPE: DNA
188 <213> ORGANISM: Homo sapien
189 <220> FEATURE:
191 <221> NAME/KEY: misc_feature
192 <222> LOCATION: (1)...(1086)
193 <223> OTHER INFORMATION: n = A,T,C or G
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198  agaaaaatct ttctgcttgg agatgctgtt aatctgtaac cctagcccc aacctgtgct 180
199  cctagagaga tgtgctgtgt tgaactcaag ttcaatggat ttagggtat gctttgttaa 240
200  aaaaagtgtt gaagataata tgcttggtta aagtcacac cattctctaa tctcaagtac 300
201  ccagggaac aatacaactgc ggaagccgc agggacctct gtctaggaaa gccaggtatt 360
202  gtccaagatt tctcccatg tgatagcctg agataggcc tcatgggaag ggtaagacct 420
203  gaactgtccc cagcccgaca tcccacagcc cagacatccc cagcccgaca cccgaaaagg 480
W--> 204  gtctgtgctg aggaagatta ntaaaagagg aaggctcttt gcattgaagt aagaagaagg 540
205  ctctgtctcc tgcctgtccc tgggcaataa aatgtcttgg tgttaaacc gaatgtatgt 600
206  tctacttact gagaatagga gaaaacatcc ttagggtgg aggtgagaca cctggcgcc 660
W--> 207  atactgtctt ttaatgcacg agatgtttgt ntaattgcc tccagggcc ncccccttcc 720
W--> 208  ttaacttttt atganacaaa aactttgttc nctttctct cgaacctct cccctattan 780
W--> 209  cctattggcc tgcctatccc ctccccaaan ggtgaaaana tgttctntaa tncgaggga 840
W--> 210  tccaaaacnt ttcccgcttg gtcccttct caaccccgct cctgggcnn ttctctccc 900
W--> 211  aactgtccc ggntccttct tcccncccc ctcccnngan aaaaaacccc gnttganggn 960
W--> 212  gcccccctaa attataacct tccnaaaca aannngtctn aagggtggtt gnttcgggtg 1020
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224 <223> OTHER INFORMATION: n = A,T,C or G
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130 ctgtcaggaa ctgttgga aa ctactgaaac tgcccgacct gatcttcaaa atgtgcccct 240
W--> 231 aggaaagggt gatgccaccg tggtcacaga cagtaccncc ttctcagaga agggactacg 300
W--> 232 aggggcccgt gcanctgtta ccaaggagac tnatgtgttg tgggctcagg ctttaccanc 360
W--> 233 aaacacctca ncnennaagg ctgaattgat cgcctcact caggctctcg gatggggtaa 420
234 gggatattaa cgttaaacact gacagcaggt acgcctttgc tactgtgcac gtaactggag 480
W--> 235 ccactaccca ggagcgtggg ctactcactc ggcaggtggc tgnatccac tgtaaangga 540
W--> 236 catcaaaagg aaaacnnggc tgttgcccgt ggttaaccana aactgaten ncagctcnaa 600
W--> 237 gatgctgtgt tgactttcac tcnncctct taaacttgc geccacanc tcctttccca 660
W--> 238 accagatctg cctgacaatc cccatactca aaaaaaaaaa aanactggcc ccgaaccena 720
W--> 239 accaataaaa acggggangg tnggtnganc nncctgacce aaaaaataat gatcccccg 780
W--> 240 gctgcaggaa tcaattcan ccttatenat acccccaacn ngngggggg ggcngtnc 840
W--> 241 cattnccct ntattnatte tttnnccccc ccccggent cctttttnaa ctggtgaaag 900
W--> 242 gaaaaacctg ncttaccan tttcncctg gacctcccc ttccnccgtg gnttanaaaa 960
W--> 243 aaaaagccnc antccentcc naaatttgca cngaaaggna aggaatttaa cttttatatt 1020
W--> 244 ttnntccttt antttgtnnn ccccttttta cccagcgcaa cngccatent ttaanaaaaa 1080
W--> 245 aaanagaang tttatttttc cttngaacca tcccaatana aancaccgc nggggaacgg 1140
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249 <211> LENGTH: 1146
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255 <223> OTHER INFORMATION: n = A,T,C or G
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260 gaaaagggtc aaaaggagct gttgacagtc atcccagggtg ggccaatgtg tccagagtac 120
261 agactccatc agtgagggtca aagcctgggg cttttcagag aaggagggat tatgggtttt 180
262 ccaattatac aagtcagaag tagaaagaag ggacataaac caggaagggg gtggagcact 240
263 cctcaccagc agggacttgt gctctctca gtggtagtag aggggctact tctccacc 300
W--> 264 acggttgcaa ccaagaggca atgggtgatg agcctacagg ggacatancc gaggagacat 360
265 gggatgacct taaggagta ggctggtttt aaggcgttg gactgggtga gggaaactct 420
266 cctctctctc agagagaagc agtacagggc gagctgaacc ggctgaagg ctaggcgaaa 480
267 acaggtctct gctcaggaag accttggaag taaaattatg aatggtgcac gaatggagcc 540
268 atggaagggg tgcctctgac caaacctcag cattgatcaa tgttagggaa actgatcagg 600
269 gaagccggga atttcattaa caaccggcca cacagcttga acattgtgag gttcagtgac 660
W--> 270 ccttcaaggg gccaactccac tccaactttg gccattctac ttgcnnaaat ttccaaaact 720
W--> 271 tcttttttta aggcgaatc cntantccct naaaaaacna aaaaaatctg cncctattct 780
W--> 272 ggaaggcc cancccttac caggctggaa gaaattttnc cttttttttt ttttgaagg 840
W--> 273 cntttnttaa attgaacctn aattncccc cccaaaaaaa aaccnccng gggggcgat 900
W--> 274 ttccaaaaac naattccctt accaaaaaac aaaaaccenc cctnttccc tccnccctn 960
W--> 275 ttcttttaat tagggagaga tnaagcccc caatttccng gctngatnn gtttcccccc 1020
W--> 276 ccccatttt cnaaaacttt tcccanena ggaancncc cttttttng gtengattna 1080
W--> 277 ncaaccttcc aaaccatttt tccnaaaaaa ntttgntng ngggaaaaan acctntttt 1140
W--> 278 atagan 1146
280 <210> SEQ ID NO: 10

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

DATE: 04/02/2001

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Input Set : A:\419c11.app.txt

Output Set: N:\CRF3\04022001\I810936.raw

L:22 M:270 C: Current Application Number differs, Wrong Format

L:84 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 3
L:90 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 3
L:91 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 3
L:92 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 3
L:93 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 3
L:94 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 3
L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 3
L:117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 4
L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 4
L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 4
L:120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 4
L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 4
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L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 4
L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 4
L:144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 5
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L:151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 5
L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 5
L:153 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 5
L:154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 5
L:155 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 5
L:171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6
L:172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6
L:173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6
L:175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6
L:176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6
L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6
L:178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6
L:179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6
L:180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6
L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6
L:182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6
L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6
L:204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 7
L:207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 7
L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 7
L:209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 7
L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 7

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/810,936

DATE: 04/02/2001

TIME: 11:01:46

Input Set : A:\419c11.app.txt

Output Set: N:\CRF3\04022001\I810936.raw

L:211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7